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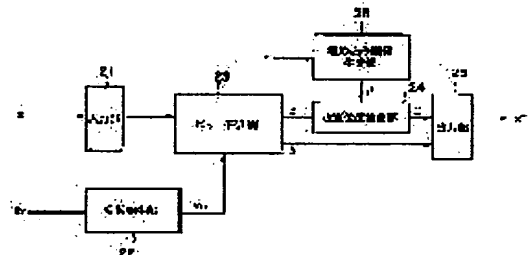
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(54) METHOD AND DEVICE FOR IMAGE PROCESSING AND STORAGE MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To detect an alteration position when the alteration is performed by inputting image position information for instructing an image position at which another data are embedded in image data, generating sub-key information at a random number based on main key information and changing pixel data of the image position of the image data decided based on the image position information based on the sub-key information.

SOLUTION: In an extracting device of an electronic watermark, data to be inputted to an input part 21 are embedded image data (x') of the electronic watermark outputted from an electronic watermark embedding device and are inputted to a bit extractor 23. Also, a random number initial value Iv to be inputted to a random number generation part 22 is an initial value to the random number generation part 22, that is, main key information. The random number generator 22 to which the random number initial value Iv (the main key information) is inputted generates a random number progression (sub-key information) Rn and the generated random number progression Rn is inputted to the bit extractor 23. In the bit extractor 23, bit information is extracted from the embedded image data (x') by using this random number progression Rn.



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